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(54) **HIGHLY CONDUCTIVE SPRING MATERIAL**

(57)Abstract:

PURPOSE: To obtain a highly conductive spring material superior to beryllium bronze by adding specified very small amounts of Fe and Ti to deoxidized copper contg. P and by carrying out precipitation hardening.

CONSTITUTION: 0.05W0.15% Fe and 0.10W0.20% Ti are added to oxygen-free copper contg. 0.02W0.04% P and 10ppm O₂. The resulting Cu alloy is subjected to conventional soln, heat treatment and precipitation treatment to precipitate iron phosphide and titanium phosphide. A highly conductive spring material having higher conductivity than beryllium bronze is obtd. at a low cost without using expensive Be. This material is equal to phosphor bronze in strength.

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